

FIG. 1

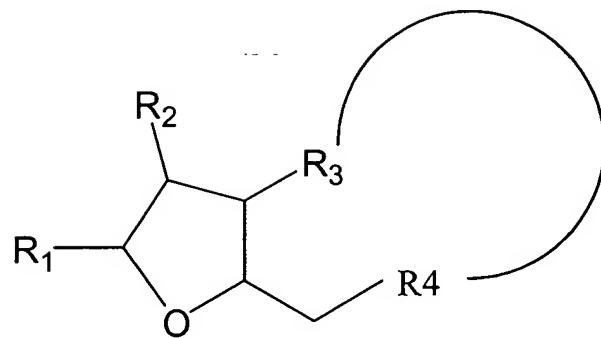
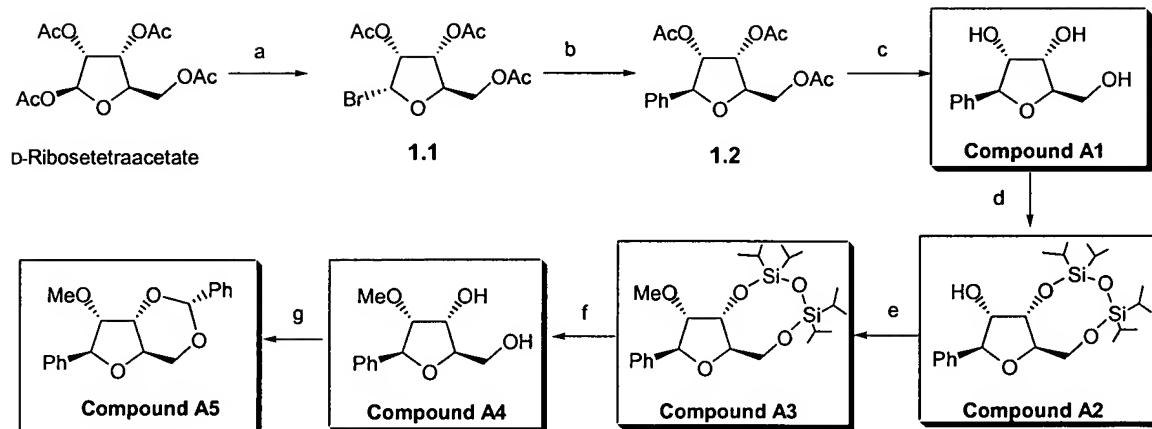


FIG. 2



a) HBr, HOAc, RT ; b) (i) phenylmagnesium bromide, diethylether, 0°C to RT; (ii) Ac<sub>2</sub>O, pyridine, RT; c) K<sub>2</sub>CO<sub>3</sub>, MeOH/THF (1:1), RT; d) 1,3-dichloro-1,1,3,3-tetraisopropylsiloxaan, pyridine, RT; e) Ag<sub>2</sub>O, MeI, reflux; f) Bu<sub>4</sub>NF, THF, RT; g) PhCH<sub>2</sub>Br<sub>2</sub>, pyridine

FIG. 3

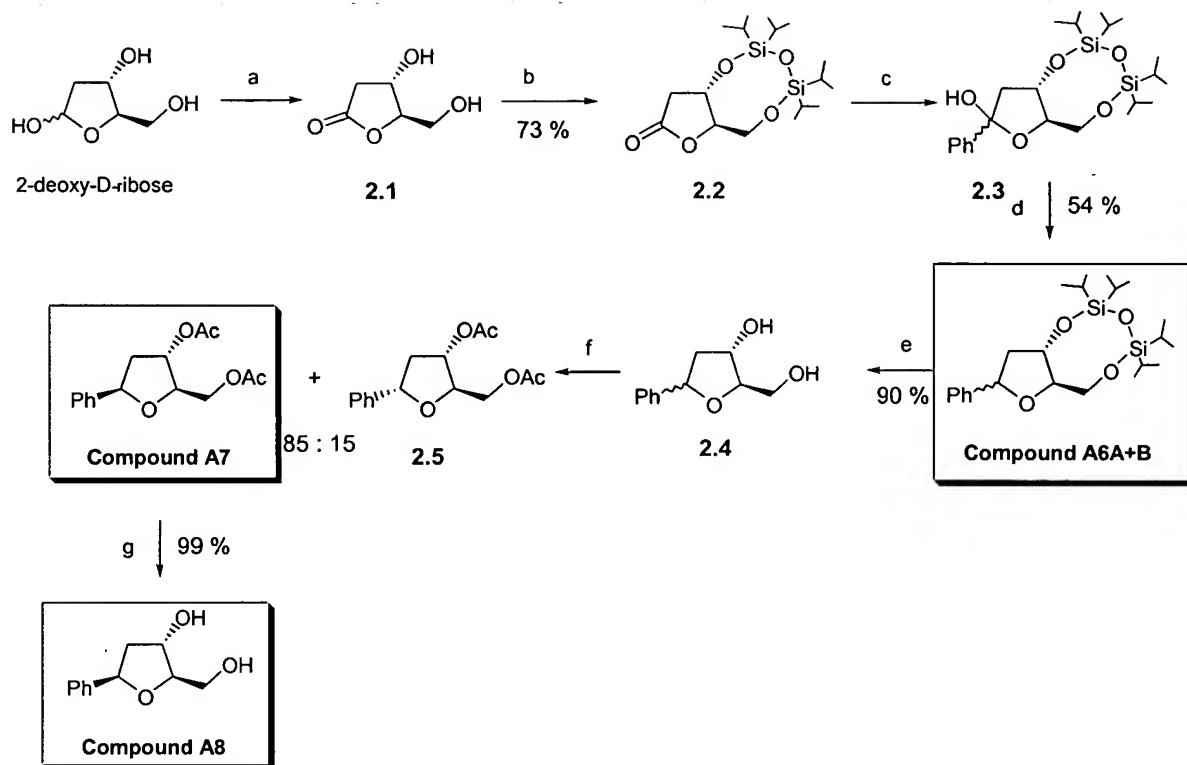
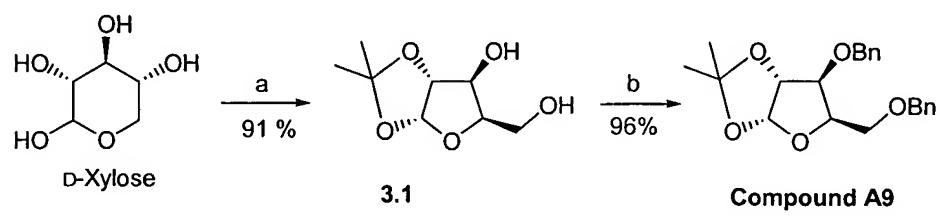


FIG. 4



a) (i) acetone,  $\text{CuSO}_4\text{.anh, H}_2\text{SO}_4$ , 24h, RT; (ii) 0.1 M HCl-sol., MeOH, 4h,  $40^\circ\text{C}$ ;  
 b) (i)  $\text{NaH, DMF, 30 min, 0}^\circ\text{C}$ ; (ii)  $\text{BnBr}$ , overnight, RT